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CLASSIFICATION S

CENTRAL INTELLIGENCE ASTACY

INFORMATION REPORT

COUNTRY Germany (Russian Zone)

SUBJECT Report on the Leuna Works

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THISD IS A THE WALLATED INFORMATION Class. Changed To: 15 5 (C)

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January 1949

- a. The Leuna Plant, named "Chemical works Leuna", a Soviet Corporation plant, now has, as formerly, about thirty thousand employees working in three 12-hour shifts (after each shift the workers have a 24-hour rest). The ratio between the production workers and repair workers is 1:1. This indicates decreased production and poor efficiency.
 - b. Fertilizer is produced on the basis of asmonia-sulphateammonium sulphate. The yearly production of about 180,000 tons of nitrogen makes production of about 400,000 tons of fertilizer possible. ++

About 30,000 tons of methanol and isobutyl are produced annually in one or two furmes. The "Organic Section" produces phenol, zyklohexanol and lactam and, finally, soap and sop powder on a cocasine basis.

c. The hydrogenation plant has not been used since 1947 when the supply of ter in the ter pools was exhausted. The ter distillation plants which supplied the ter, although they do not belong to the Leuna Plant, were not yet ready for operation or were unable to deliver for other reasons. Some of these ter factories are located in ESPENHAIN (N 52/K 29), BCEHLER (N 52/K 29), the Leopold Mine, NOELFERCHELI near FRANKFURT/Main, the Messel Mine near DARMSTADT. It was planned to resume hydrogenation on the ter basis in mid-February 1949 after the delivery firms (as far as they are located in the Soviet Zone) have at least partly resumed ter production. +++

It is hoped that monthly production will reach 10,000 tons of gasoline plus Diesel oil after three months of operation.

Hydrogenation by the lignite process the Leuna Plant is not equipped for hard coal hydrogenation) was not yet resumed,

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as the coul dressing installations were not yet serviceable. It is hoped that repairs on two coal chambers will be completed in May 1949. A monthly production of about 5,000 tons is then expected.

- d. Dismantling: about 30 percent or 120,000 tons of machines plus about 40,000 tons of piping of all installations, were dismantled in 1946, viz: 90
- (1) From the power plant: Eight high pressure boilers for the production of about 400 tons of steam per hour at 120 atmospheres and a weight of about 25,000 tons, two turbines of 10,000 km each. It was rumored that four high pressure boilers and both turbines were sent to TACHKELT and the other four boilers to the Donets Dubin.
- (2) The nitric acid plant for the production of native gases such as krypton, neon etc. and the plant for the production of heavy water were totally dispartled.
- (3) From the hydrogenation plant only the high pressure coverings (for about 200 atmospheres), and the low pressure installations for the production of hydrogen hydrogen carbon exide nitrogen were dismuntled. \emptyset

The celection of the dismantled items revealed excellent planning by the coviets. The plant for heavy water and native
gases and the dismantling of the plant for nitric acid may indies a that the Soviets intend to use intric acid as a racket
weapon fuel, possibly for long-range antiaircraft rockets of
the German V-2 type. The dismintling of the hydrogen installations does not conclusively indicate that the coviets are going to
produce multiple stage-rockets fueled with liquid hydrogen.
The usage of liquid hydrogen is for more complicated than that
of liquid oxygen and, furthermore, hydrogen can also be used
for a great many other chemical processes.

- It is noteworthy that the soviets aid not dismostle the hydrogenation install tions proper, but were satisfied with the high pressure coverings. This confirms some reports stating that the loviets are well familiar with low pressure hydrogenation.
- (4) The dismonthing was effected as follows: The monthly inventory reports of the plant, were submitted to the Joviets. On the basis of these reports they apparently compiled a complete and comprehensive dismantling list in MCSCOO. All devices were than carefully dismantled, numbered, tightly packed and shipped with correct shipping lists via STETTIM.

The widely held opinion that all dismartlings were effected in a disorderly manner is disproved by this report on the dismartling in Louis, which indicates that it may be possible to re-establish efficient installations with the dismartled machinery.

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- (1) Dr. Herold, chief of the experimental section of Leuna, and his assistants.
- (2) Dr. Asinger

(3) Dr. Smeykalz

- (4) Dr. Otto, chief of the design office(5) Dr. Gericke, expert on lubricating oil(6) Dr. Meier. expert on organic chemistry
- (6) Dr. Meier, expert on organic chemistry
 (7) Dr. Kaufmann, fuel specialist (refining of low-octanerating gasoline into aviationgasoline)

(8) Dr. v.d. Horst, assistant to Dr. Kaufmann

(9) Dr. Wyschomirsky, chief of material test installation

(10) Dr. Gemassmer, specialist on fatty acids (11) Dr. Geib, chief of the heavy water section

(12) Dr. Scheuer, physicist (measuring technique, heavy water)

13) Dr. Pohl, specialist on fuels and acetylene

(14) Dr. Eckhold

(15) Graduate Engineer Scholtz, test stands for fuels, specialist on motor fuels.

Most of these experts were first sent to Moscow where they were almost ceremoniously received. Some were later transferred to Leningrad, others to Gorki via Leningrad. From dependable reports it was learned that Dr. Gericke and Dr. Herold are living in Gorki and Dr. Scholz and Dr. Wyschomirsky in Leningrad.

- f. It was expecially noted that the Soviets made Dr. Becker and Dr. Schrader examine coal samples from the Kuznets Basin to determine whether this coal is suitable for hydrogenation. It may be mentioned that gasoline derived from coal yields the best aviation gasoline. Dr. Becker, in whom the Soviets are highly interested, escaped to the Western Zones.
- g. The Soviets exerted great efforts to obtain the services of Dr. Novotny, an expert on high-percentage hydrogen percexyde. This actempt may indicate that the Soviets intended to produce long-range antiaircraft rockets fueled with hydrogen peroxyde and potassium permanganate or natrium permanganate. Hydrogen peroxyde, with potassium permanganate or natrium permanganate "Aurol" is also used as fuel for Walther turbines installed in Walther submarines.
- h. Leading individuals in the present Leuna Plant management are:
- (1) Dr. Eckhard, general manager
- (2) Dr. Sunthoff, production manager
- (3) Dr. Ober, production manager.

February 1949

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2. a. Working conditions: Work is done in three shifts. The shifts are from 7:30 a.m. to 4:40 p.m., 6 a.m. to 6 p.m. and from 6 p.m. to 6 a.m. There were about 28,000 employees until 24 January 1949. Five thousand workers were dismissed on 25 January and an equal number on 26 January 1949.

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h.	Paranimal	٠

(1) PATTANNOV (phonetic spelling) is Soviet general manager.

The lives at 24 Friel Lenelstrance, INUMA and used 25X1

the only vehicle stationed in LAUNA. All other cars

are parked in the garage at 25X1

the gasoline station on Merseburgerstrance, INUMA.

(2) Dr. MCHARD, residing at 5 Preussenstrance, INUMA, is 25X1

(2) Dr. ECHARD, residing at 5 Preussenstrause, EEUNA, is the German manager.

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c. See plant layout and pirtinent legend.

November 1948

3. a. About three-fourths of the 23 plant experts who were deported to the devict Union in Cataber 1946 were chemists, the others had been on the designing staff. After arrival in the down t Union they were distributed as follows:

About one third to

(1) LELIEGRAD

(2) marpov Institute, NOCCON

(3) Guill.

The expects transferred to modCCT were again subdivided into two about equal groups, one going to GCAKI in april 1948, the other to LISTONALOR. Dr. ACMOS, formerly chief chemist at Louna, and Dr. MamoDD were among those transferred to GCRKI. Totters which Dr. ACMOS wrote to his wife reveal with surprising frankness that the living conditions of these experts who are, together with their families, deported to the Loviet Union, were extremely unfavorable. This was also implied by Dr. ACMOS repeated warnings to his wife not to one to the Loviet Union. He was very happy that she was again in Austria.

b. No new machinery or other production means have been installed in the Leuna Plant since 1945. Only reconditioning and repair work has been done.

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c. A number of prominent goologists who are not active at present are a signed to the Leuna Plant.

4. An experimental section concerned with research work in the field of heavy water is attached to the Leuna Plant. It is housed in building "219" situated on a dump (see attached sketch). Intensive work is being done there, but no heavy water is now produced. The production installations were dismorthed by the Soviets in 1946 and have not been rebuilt.

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Comment:

- The unfovorable proportion between the number of production and repair workers (1:1) shows that the firm was unable to l. make up the losses caused by bomb damage and lovict dismont-ling, and is still in a state of reconstruction. The plant of is still working with a deficit. In 1947 the plant required a five million acichemerk monthly subsidy from public finances. The lovict Corporation plant is now soviet state property but these allowances must be paid from German taxes.
- Theysarly production of 400,000 tend of fertiliter (ammonium-sulphate) is 53,000 tend lower than prescribed by the official 1949 production plan. 450,000 tend of these 453,100 tend are to be produced by the "heuna" dovict Corporation Plant and 3,100 tend by nationalized plants. The production of methanolias acheduled for 1949 amounts to 15,000 tend (1,000 tend less than in 1948). Lince the production of methanol plus isobuthyl for 1949 is indicated at 30,000 tend, a 15,000-ten production of isobuthyl must be assumed. The prescribed quota for lactam (an intermediate product for a nylon-like artificial fiber) amounts to 650 tend. The latter three products are almost examounts to 650 tone. The latter three products are almost exclusively delivered to the "Buna " Soviet Corporation Plant, CO. KOPAU, and to the "Baustik" Loviet Corporation Plant, BITTERen id.
- 25X1 +++ 3.

the heavily dispension up to the end of 1947 (x). The hydrogenation was said to have been suspended during the first quarter of 1948 and was to be resumed in the second quarter of 1948 to reach approximately 6,000 tons per month at the end of 1948. The hydrogenation on the browncoal ter basis was to be resumed in mid-February 1949 and the hydrogenation on the browncoal basis of ter the recentlishment of the coul dressing plant in May 1949. The total capacity for the production of fuel must therefore be rated at 15,000 tons from mid-1949 on (10,000 tone from browncost tar and 5,000 tene from browncoal).

The statements that no new production means are installed and pulv rebuilding and reconditioning is being done, was confirmed

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- The information that there is a pilot plant which is engaged in the field of heavy water has been reported for the first time and sequires confirmation. Ø
 - The expacity of the main production branches was as follows in 1943:

600,000 time per year Gascline and Lieuel oil: Pr ry nitrogen: 300,000 tone per year 200,000 tons per year 50,000 tons per year Mothanol and higher alcohol: Lorsol 30,000 tons per year. oulphuric acid .

The losses caused by the dismentling can be assumed as approximately 50 percent instead of 30 percent as indicated in ØØ the report.

1 Amnex: "Louna" Soviet Corporation Plant (Blueprint with Legend)

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